**Soils Review Sheet**

1. Why is soil so important to life?
2. In the grand scheme of Earths makeup, where does soil fit?
3. What resources does soil provide to the Earth?
4. What four basic needs does soil provide for plants?
5. What is photosynthesis and respiration? How do they relate to soil?
6. How can soil be used, both agriculturally and nonagricultural?
7. What is organic matter in soil and why is it important?
8. What types of organisms live in soil and why are they important to soil?
9. What affect does climate have on soil?
10. Which glaciers were important to soil formation in Illinois?
11. What are the different horizons that are present in a soil profile? How are these different?
12. What can the color of the topsoil tell you?
13. What can the color of the subsoil tell you?
14. What affects do the following have on soil formation
    1. Glaciers
    2. Physical weathering
    3. Chemical weathering
    4. Plants
    5. Animals
15. Describe what the following soil parent materials are and what they provide to soil.
    1. Loess
    2. Outwash
    3. Glacial till
    4. Alluvium
    5. Bedrock
    6. Organic
16. What do the following terms mean and how are they related to soil?
    1. Topography
    2. Climate
    3. Tilth
    4. Soil profile
    5. Soil degradation
    6. Salinization
    7. Desertification
    8. Waterlogged
17. What was the Dust Bowl? Why did it happen? What did it teach us?
18. What are the four main components of soil and how do they relate to each other?
19. Use the following information to answer questions about the soil that is present: Eye height = 9.2; Rod height = 7.0; Length of slope = 100 ft; top soil color is very dark; subsoil color is brownish with no gray mottling in it; no gray soil between the A and B horizon; Z = 0.09
    1. What is the slope of you land?
    2. What is the percent organic matter that is present?
    3. Is there an A2 horizon that is present?
    4. What type of drainage would this soil provide?
    5. What is the C value of the soil?
    6. Accurately mark the chart below

